



TM

MINI-GRINDER

OWNER'S INSTRUCTION MANUAL



Thankyou for purchasing an Arbortech Product.

Your Arbortech Mini Grinder has been designed & manufactured to provide you with the highest satisfaction in performance, durability and safe operation.

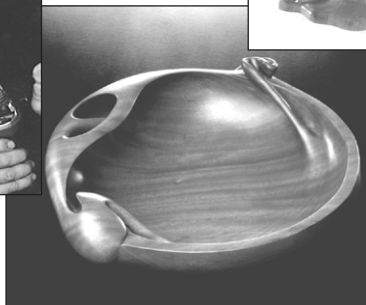
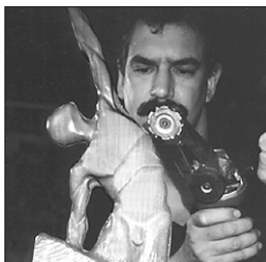


**READ THIS MANUAL
TO SAVE TIME AND MONEY**

Please read this manual carefully to ensure correct operation and care of the machine. If you are using the Mini Grinder correctly, it will provide you with years of reliable service and save you time and money.

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**Please read these instructions before
you use your Mini-Grinder.**

Rules for safe operation of electrical equipment 2

The Arbortech Mini Grinder is designed and built to meet and exceed Australian and International Safety Standards.

Use only Arbortech approved or other qualified service centres for the servicing and/or repair of this tool. For further assistance contact Arbortech.

The Arbortech Mini Grinder is double insulated to provide the highest possible operator protection from electric shock. Please observe all necessary safety precautions to avoid electric shock. Do not operate this tool until you have read and understood all safety instructions and rules of operation. Failure to comply with these instructions can result in serious accidents including fire, electric shock or serious personal injury.

Read all instructions

Keep this manual for further reference.

- 1. Know your power tool:** read the owner's manual carefully. Know its applications and limitations to avoid potential hazards.
- 2. Warning:** Do not remove any parts as specified on page 5 (Knowing your tool).
- 3. Wear approved safety glasses:** when operating a power tool.
- 4. Wear hearing protection:** when operating a power tool.
- 5. Wear lung protection:** during dusty operations.
- 6. Wear correct safety clothing:** wear close fitting clothes and not loose clothes. Do not wear jewellery. Tie back or conceal long hair.
- 7. Take care around grounded surfaces:** pipes, radiators, ranges or refrigerators can lead to electrical shock if touched while using electrical power tools.
- 8. Avoid dangerous environments:** do not use electrical tools in wet or damp conditions or in rain. Ensure a well lit work area.
- 9. Keep work area clean:** an untidy work area can be obstructive and lead to injury.

3 Rules for safe operation

- 10. Secure the workpiece:** to avoid serious personal injury.
- 11. Do not remove guards or shields:** these are designed to increase operator safety.
- 12. Store idle tools in dry, out of reach places:** When not in use the tool should be stored in a dry, frost free location not within the reach of children.
- 13. Use the right tool:** use the correct sized tool for the job. For example, do not try to use the Mini Grinder to cut thick boards, bricks or pipes.
- 14. Keep away from children and visitors:** bystanders must wear all correct safety equipment. Do not let people touch a running tool.
- 15. Do not force the tool:** the Mini Grinder is designed to operate at a specific speed and the correct blade will enhance its performance in different materials. Force will not increase the operating speed.
- 16. Maintain your tool carefully:** Keep blades sharp. Keep the ventilation slots of the power tool clean at all times and prevent any foreign matter from entering. Follow the cleaning and maintenance instructions.
- 17. Avoid accidental starting:** always ensure the tool is switched off before plugging in. Do not carry with fingers on the switch.
- 18. Do not use tool if on/off switch is faulty:** contact your authorised service centre.
- 19. Disconnect tools:** when not using, changing blades, or servicing, always unplug the tool from the power source.
- 20. Inspect the tool cord periodically:** if damaged have it repaired by an authorised service centre. Keep cord well away from the cutting blade.
- 21. Keep handles dry and clean:** always use a clean cloth to clean the Mini Grinder. Do not use solvents or petroleum based products.
- 22. Do not abuse cords:** Do not carry by the cord. Do not pull plugs from the socket by the cord. Do not coil the cord. The power cord of the tool and any extension cord used should be checked frequently for damage. If damage has occurred, have the cord replaced by an authorised service facility and replace the extension cord.
- 23. Check for damaged parts:** before every use, inspect components for damage. Check belt alignment and condition periodically. Check the extension arm is securely fitted to the tool body. Check all bindings, mountings and moving parts for wear.

24. Stay alert: Make sure you are well balanced when using the tool and you have secure footing. Don't use the tool when you are tired. Use common sense and care during operation.

25. Cleaning: If the outer case of the motor needs cleaning do not use solvents but a moist soft cloth only.

26. Lubricating: The grease in the gearbox will require replacement/replenishment after extensive use of the grinder. Please see your appropriate service agent to provide this service.

27. Do not use this tool when under the influence of drugs, alcohol or medication.

28. Keep hands away from the cutting area: always keep hands well away from the blade. Do not reach underneath the workpiece during operation. Do not move or remove the workpiece while operating this tool.

29. Guard against kickback: kickback occurs when the tool is stalled rapidly. Avoid kickback by not twisting the blade in the workpiece and using only the bottom edge of the blade to cut. Switch off immediately if the tool stalls.

Approach the workpiece slowly when lowering the blade into the cut.

30. Outdoor extension cords: when using the Mini Grinder outdoors, use only approved extension cords.

31. Use only correct blades: use only Arbortech replacement blades with this tool. Only use correct sized and intact washers. Use blades which are suitable for the purpose.

32. Never: touch the blades during use!

33. Never: start the machine with any part of the blade touching the workpiece.

34. Never: set down the tool before the blades have come to a complete stop.

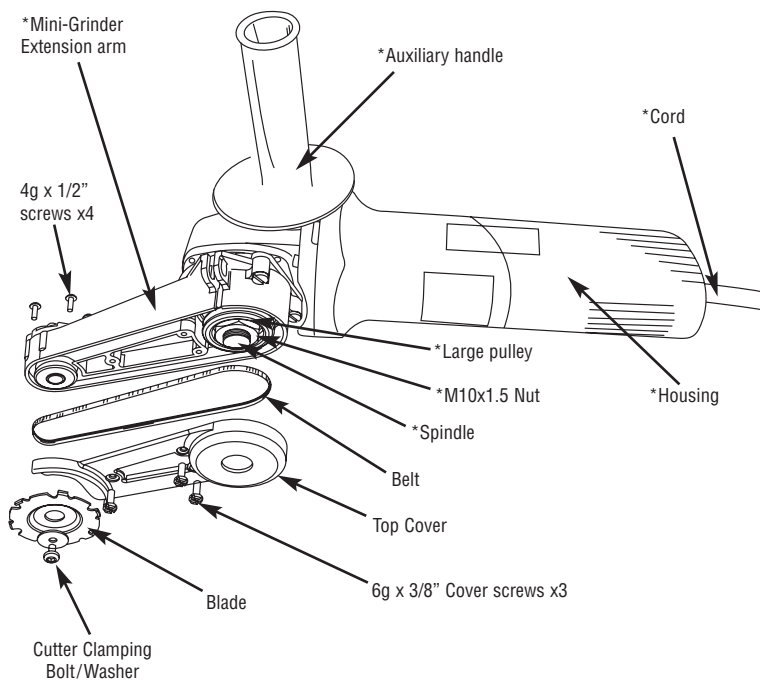
35. Save these instructions for future reference and to save money.

5 *Knowing your tool*

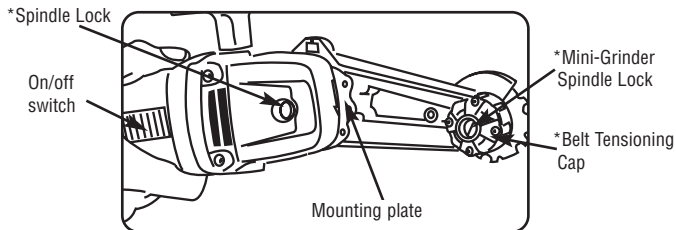
Note: text, diagrams and data are correct at time of printing. In the interests of continuous improvement of our products, technical specifications are subject to alteration without prior notice.

***WARNING: DO NOT REMOVE THE MINI-GRINDER
EXTENSION ARM FROM THE MOTOR.**

See Warranty Card For Conditions



***WARNING DO NOT REMOVE**



Unpacking and assembly

1. Remove the Mini Grinder from its box. Inspect to ensure that no damage has occurred during shipping. If damaged, report to the retailer immediately.

2. Remove the auxiliary handle from the box and attach to the tool. (as shown in fig.1)

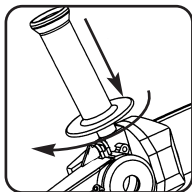


Fig.1

3. Ensure that the Mini Grinder extension arm is always fitted securely to the mounting plate. If loose, tighten the 3 screws that hold the Mini-Grinder to the mounting plate on the tool body. as seen in fig.2.

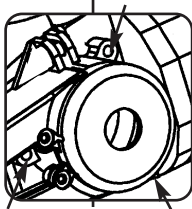


Fig.2

4. The Mini Grinder is packaged with a Mini Woodcarver Blade fitted, ready for use. Ensure that the **cutter clamping bolt** is tightened fully. (as shown in fig.3)

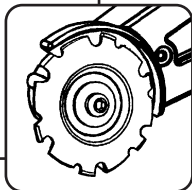


Fig.3

7 Operation

- To change blades or sanders, unscrew the **cutter clamping bolt** fully using the Allen™ key provided.

Place a flat head screwdriver into the Mini-Grinder spindle lock (seen in fig.5) and remove blade (as shown in fig.6).

Place new blade securely on the small pulley.

Place top washer over blade and secure using the **cutter clamping bolt** (as shown in fig.6).

Check that the blade is sitting flat against the small pulley.

- Also packed with the Mini-Grinder is a set of 4 assorted Mini-Sanders (40, 60, 80 & 120 grit).

To replace the blade with the sander, unscrew the **cutter clamping bolt** fully using the Allen™ key provided.

Remove blade. Insert **HEXAGONAL BOLT** into the mini-sander keyway and wind into the mini-grinder spindle in place of the cutter.(as shown in fig.7).

Hold spindle lock as per fig.5.

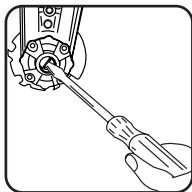


Fig.5

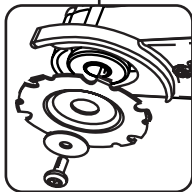


Fig.6

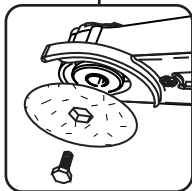
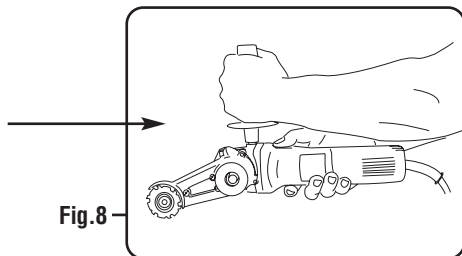


Fig.7

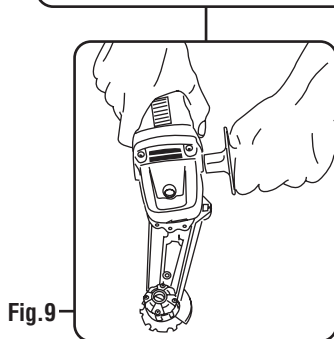
Warning: Always wear correct safety clothing, including ear, eye and lung protection.

- The Mini Grinder should always be used with two hands, placing the left hand on the auxiliary handle and the right on the tool body.
(as shown in fig.8)

CUTTING GRIP



- Ensure the machine is running BEFORE contacting the material, to be worked on.
- To sand, polish or scrub, hold the Mini-Grinder horizontally.
(as shown in fig.9).



- Use the Mini Woodcarver Blade to cut or remove wood and plastics. The Mini Sanding Pads are for cleaning and sanding wood, plastics, metal, paint and much more. Use the diamond blade for cutting and recessing any masonry based material.

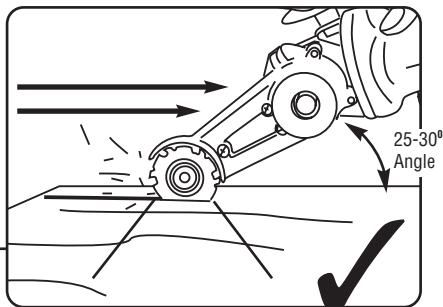
9 Operation

To trench cut, hold the Mini-Grinder vertically and simultaneously lower into the wood and pull towards you. (as shown in fig.10)

SHOWING ANGLE & DIRECTION OF CUT

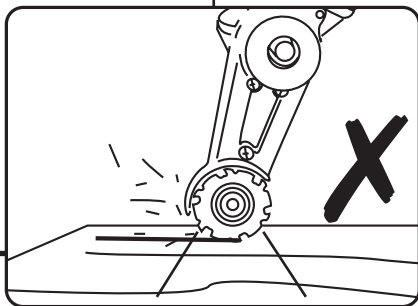
25-30° is a comfortable working angle.

Fig.10



- Use the bottom edge of the blade (as shown in fig.10)
And **not** as in fig.11.

Fig.11



- **Changing Blades:**

The Diamond blade (MIN016) and Tungsten Carbide Blade (MIN012) will require step-washers.

If required, place step washer on small pulley (shown in fig.12 and 13), and as shown in the individual accessory fitting instructions.

- **Blade sharpening:**

1. Unplug the Mini Grinder.
2. Use a (3/16") or 4 mm round metal file (MIN003). When sharpening hold the file at 90° to the blade, keeping the file level. (as shown in fig.14)

- **Checking adaptor plate**

Ensure that the Mini-Grinder adaptor plate is always mounted securely. If loose, tighten the three adaptor plate screws as shown in fig.15.

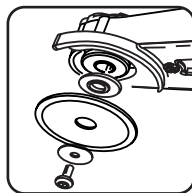


Fig.12

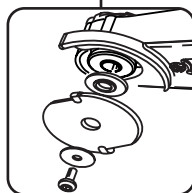


Fig.13

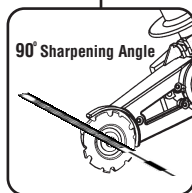
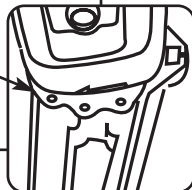


Fig.14

Fig.15



11 Maintenance

Tensioning or replacing the belt

- Unplug the Mini-grinder
- Remove the 4 belt tensioning cap screws (shown in fig. 17).
- Then remove the 3 top cover screws (see knowing your tool page 5)
- Remove all visible slack from the belt by turning the tensioning cap. (shown correctly in fig.18). Rotate the belt tensioning cap in the direction in which the blade moves away from the guard (see fig.17). The blade can be seen moving slightly when rotating the Belt tensioning cap.
- When tensioned secure with top cover screws.

DO NOT OVER TENSION THE BELT

If replacing the belt ensure that the “V” shape sides of the belt are on the inside (as shown in fig.19). Replacement belts (MIN003) are available through Arbortech Pty Ltd (see address on back).

Note: clean with a soft cloth or small brush.

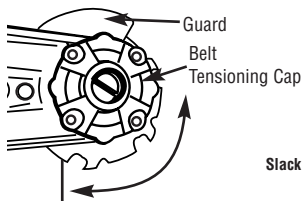


Fig. 17



Fig. 19

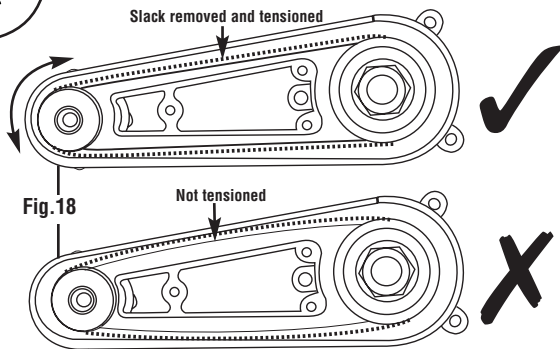


Fig. 18

Cleaning the grills and switch

Regular check to see if any dust or foreign matter has entered the grills positioned on the front and back of the motor or under the switch (as shown in fig.16).

If so use a soft brush to remove any accumulated dust. Wear safety glasses when doing this.

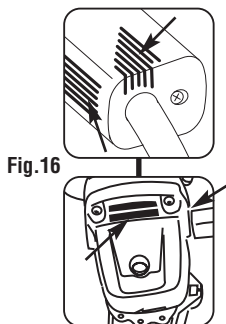


Fig.16

Accessories & Spare Parts

Accessories Available for the Mini-Grinder

MIN001 Mini-Woodcarver Blades x 2

MIN002 4mm Sharpening File

MIN003 Replacement Pulley Belt

MIN004 Bearing & Spindle Assembly

MIN006 Mini-Sanders 4x assorted sanders

MIN008 4 x 40 Grit Mini-Sanders

MIN009 4 x 60 Grit Mini-Sanders

MIN010 4 x 80 Grit Mini-Sanders

MIN011 4 x 120 Grit Mini-Sanders

MIN012 Mini Industrial Cutter

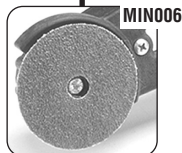
MIN016 Mini Diamond Blade

MIN018 R-Burr disc (Fine)

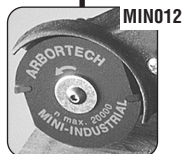
MIN019 R-Burr disc (Coarse)



MIN001



MIN006



MIN012



MIN016

13 Other Products

Woodcarver Pro-4 Kit

Wherever waste wood needs to be removed rapidly or cut, shaped, trimmed or trenched, you will find the 100mm Woodcarver an ideal and versatile attachment for an angle grinder. This Pro-Kit contains a 100mm Woodcarver blade and Pro-Guard.



Industrial Woodcarver Pro-Kit

The 100mm Industrial Cutter with replaceable Tungsten Carbide teeth is the ultimate professional tool for all wood shaping in soft and hard woods. You can now remove large areas of wood quickly, easily with control and precision, cutting in all directions regardless of grain to produce a fine finish. This Pro-Kit contains a 100mm Industrial Cutter, Pro-Guard and fixing key.



Power Chisel Power Tool

An excellent tool for all woodworkers in all applications. Safe, versatile and completely dust free in operation, it is ideal for experts and beginners alike.

The constant reciprocating action gives incredible control to the user, and also the ability to carve difficult and uneven timbers which traditionally have been hard to carve.

This kit contains a 20mm flat chisel, 20mm gouge chisel, 25 ml oil bottle, power chisel unit & 700 watt motor.

Available also as an attachment.



Tuff-Cut

Set with tough Tungsten Carbide teeth, the Tuff-Cut features a 4mm cutting width, which makes it ideal for trenching in melamine, laminate, plastics, fibreglass, various non-ferrous materials and all types of wood and wood based materials.

The Tuff-Cut blade features excellent control and handling and is designed to fit onto 115mm & 125mm angle grinders.

Designed to be multi purpose cutting blade, which will work with power and control in a variety of materials. It is perfect for general purpose cutting of wood, wood based materials, plastics, plaster board, laminates, sheet materials, aluminium & other soft, non ferrous metals.



15 *Technical Information*

Max. Blade diameter:	50 mm
Max. RPM:	18,000 rpm @ extension spindle
Power:	5.8A ~ 700 Watt
Rating:	230-240V, AC, 50-60Hz (MIN300) 230-240V, AC, 50Hz (MIN350/360) 120V, AC, 60Hz (MIN400)
Disc Bore Size:	9.5mm
Max. cutting depth:	10 mm
Weight:	1.83 Kg
Overall Length:	350mm

Tested acc.: EN 50144-1:1995

DIN VDE 0740 Part 21/01.94

According to the standard EN50144-1 under "load" - condition:

- A-weighted equivalent

Sound pressure level: 107db(A)

Sound pressure level: 120db(A)

- Weighted root mean square 8.6m/s²

CE-Declaration of Conformity:

We declare under our sole responsibility that this product is in conformity with the following standards or standardised documents:

Tested acc.: EN 50144-1:1995

DIN VDE 0740 Part 21/01.94

*Manufacturer reserves the right to change specifications without notice.

*Note: Specifications may differ from country to country.

NOTE: Motor may differ from that shown on box depending
on specifications required for your country.

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